International Journal of ChemTech Research
CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.6, pp565-574,2017

Carmona retusa (Vahl) Masamune-Potential Antioxidant Natural Medicine

RajkumarRamanathan, MeenakshiRamakrishnan, Rajesh Palaniand SelvamKuppusamy*

Department of Botany, School of Life Sciences, Periyar University, Salem-636 011, Tamilnadu, India.

Abstract: The present study was intended to investigate the phytochemical screening and in vitro free radical scavenging ability of the different solvent extracts of *Carmona retusa*(Vahl) Masamune leaves. Preliminary phytochemical screening of plant extracts showed the presence of alkaloids, phenols, flavonoids, tannins, saponins, terpenoids, steroids, carbohydrates, glycosides, amino acids and proteins. The phytochemical screening of *Carmona retusa*(Vahl) Masamune leaves was carried out by using various solvent system of varying polarity of ethanol, methanol, chloroform, ethyl acetate and aqueous. Radical scavenging assays like 2, 2-diphenyl-1-picrylhydrazyl(DPPH), 2, 2-azino-bis(3-ethylbenzothiazoline-6-sulphonic acid($ABTS^{+}$), Hydroxyl radical (OH), Nitric oxide (NO) and Ferric reducing ability of Plasma (FRAP) assay were done using renowned protocols. The results obtained in the present study indicated that *Carmona retusa*(Vahl) Masamune leaf as a rich source of natural antioxidants and provides evidence that the solvent extract contains medicinally essential bioactive compounds and the plant species used as traditional medicine for the treatment of some diseases like diarrhea and digestive problems.

Key words: Phytochemicals, *Carmona retusa*(Vahl) Masamune, Metabolites, DPPH, Antioxidant.

*****